Project Design Phase-II
Solution Requirements (Functional & Non-functional)

Date	31 January 2025
Team ID	PNT2025TMID02227
Project Name	Power BI Inflation Analysis: Journeying Through Global Economic Terrain
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form Registration through Gmail Registration through LinkedIN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Data Visualization and Dashboard	Visualize inflation trends by country, region, and time Interactive charts and graphs using Power BI Drill-down features for detailed exploration of data
FR-4	Report Generation and Export	Generate downloadable reports on inflation data Include visualizations (charts, graphs) in reports Export reports in multiple formats (PDF, Excel, etc.)
FR-5	User Profile and Preferences	Ability for users to update profile details Set data filtering preferences (e.g., countries, years)
FR-6	Data Search and Filtering	Search for inflation data by country, year, and region Filter inflation data based on specific economic indicators (e.g., CPI, PPI, etc.)

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The system should be easy to navigate, with an intuitive UI/UX for data visualization.
NFR-2	**Security**	The system must ensure user data protection through secure authentication methods (e.g., OAuth, 2FA) and data encryption.
NFR-3	**Reliability**	The application should maintain consistent performance, ensuring no crashes or data loss under normal use conditions.
NFR-4	**Performance**	The system should load large datasets quickly (especially in Power BI dashboards) and deliver minimal latency for real-time interactions.

NFR-5	**Availability**	The application should be available 99.9% of the time, with a reliable backup and disaster recovery plan.
NFR-6	**Scalability**	The solution should be scalable to accommodate an increasing number of users and handle expanding datasets without performance degradation